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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/620,768		07/17/2003	Min-ho Choi	1293.1812	9156	
21171	7590	09/22/2004		EXAM	EXAMINER	
STAAS &	HALSE	Y LLP	LEE, SUSAN SHUK YIN			
SUITE 700 1201 NEW YORK AVENUE, N.W.				ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20005				2852		
				DATE MAILED: 09/22/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	1 A 12 42 No	A 11 4(-)				
	Application No.	Applicant(s)				
Office Action Summary	10/620,768	CHOI ET AL.				
	Examiner	Art Unit				
The MAILING DATE of this communication a	Susan S. Lee	orrespondence address				
Period for Reply	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).		nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
	is action is non-final.					
· <u> </u>	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
• • • • • • • • • • • • • • • • • • • •	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-3,8-10 and 15-19 is/are rejected. 7) Claim(s) 4-7 and 11-14 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9)⊠ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119	•					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 7/19/04. 		ate latent Application (PTO-152)				

DETAILED ACTION

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Objections

Claims 1-14 and 18 are objected to because of the following informalities:

As to claim 1, line 3, "the photoreceptor drum" lacks antecedent basis.

As to claim 8, lines 3-4, "the photoreceptor medium" lacks antecedent basis.

As to claim 8, line 12, "the toner image" lacks antecedent basis.

As to claim 18, line 6, "the latent electrostatic image" lacks antecedent basis Appropriate correction is required.

Double Patenting

Claim 19 is objected to under 37 CFR 1.75 as being a substantial duplicate of claim 17. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 15 and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Kobayashi et al. (5,307,127).

Kobayashi discloses color image forming apparatus with a photosensitive drum 1; an exposing unit that exposes image light 11 from a laser beam source 8; a plurality of developing devices 6M, 6C, 6Y, and 6B that are stationary (no rotation nor sliding of the devices), each having a different color developer, a developing sleeve or developing roller 2a, 2b, 2c, 2d; a transfer drum 13 for carrying a transfer material and transferring the toner image onto the transfer material (note column 15, lines 1-18); and a power supply 9 that is applied to each developing roller to selectively apply a first bias T1 allowing toner to be supplied through a development gap to the photosensitive drum and a second bias T2 urging developer from the photosensitive drum to the developing sleeve. The development gap is 100-350 microns (note column 13, lines 50-54). Each developing device contains non-magnetic toner as a one-component developer (note column 4, lines 37-39). Note abstract; column 4, lines 17-36; and column 14, line 46-column 16, line 36.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of

the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-3, 8-10, and 17-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kobayashi et al. (5,307,127) in view of Funatani et al. (Japan, 758).

Kobayashi et al., as discussed above differ from the instant invention by not disclosing a second bias that prevent toner from passing through the development gap.

Funatani et al. discloses prevention of movement of toner from a developing sleeve to a surface of a photoreceptor 101 by applying a bias value during a nondeveloping period. Note abstract.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the apparatus of Kobayashi et al. with that of Funatani et al. so that a staining of toner can be prevented during transfer of the toner images as discussed by Funatani et al..

Allowable Subject Matter

Claims 4-7, and 11-14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Saito et al. (304), Iwata, Huang, Enomoto et al., Saito (205), Yoshikawa et al., and Tajima et al. disclose art in color developing devices.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susan S. Lee whose telephone number is 571-272-2137. The examiner can normally be reached on Mon. - Fri., 10:30-8:00, Second Monday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Art Grimley can be reached on 571-272-2136 or 571-272-2800 (Ext. 52). The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Susan S. Lee Primary Examiner

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